

CLAIMS

What is claimed is:

1. A method of indicating functions of buttons in an image display apparatus, the method comprising:

generating an image indicating functions assigned to the buttons; and
displaying the image on the image display apparatus.

2. The method of claim 1, wherein the image is text indicating the functions assigned to the buttons.

3. The method of claim 2, wherein the language of the text can be selected by a user.

4. The method of claim 2, wherein the image also includes symbols indicating at least one function assigned to at least one respective button.

5. The method of claim 1, wherein the image is displayed at a position on the image display apparatus close to the buttons.

6. The method of claim 1, wherein the operation of the displaying the image on the image display apparatus further comprises:

detecting a pivot angle of the image display apparatus; and
displaying the image rotated according to the pivot angle.

7. An image display apparatus comprising:

an image display unit;

a graphics processing unit which supplies images displayed by the image display unit and

a controller which sets display parameters of the image display apparatus, has buttons for item selection, and performs operations assigned to the buttons,

wherein the image display unit has zones to display an image indicating functions assigned to the buttons, and the controller generates image information to be displayed in the zones and supplies the image information to the graphics processing unit.

8. The apparatus of claim 7, wherein the zones to display an image indicating functions assigned the buttons are displayed at a position on the image display apparatus close to the buttons.

9. The apparatus of claim 7, wherein the image indicating functions assigned the buttons is text indicating the functions assigned to the buttons.

10. The apparatus of claim 7, further comprising a pivot detector which detects a pivot angle of the image display apparatus and supplies pivot angle data to the graphics processing unit,

wherein the graphics processing unit displays the image in the zones rotated according to the pivot angle.

11. A menu processing method of an image display apparatus having an image display unit and buttons, the method comprising:

displaying a menu including selectable items on the image display unit;

generating an image indicating functions of the buttons to search for and select the selectable items;

setting zones to display the image on the image display unit;

displaying the image on the set zones; and

recognizing whether a selectable item is selected according to whether a corresponding button is pushed.

12. The method of claim 11, wherein the zones for the image indicating functions of the buttons are displayed at a position on the image display apparatus close to the buttons.

13. The method of claim 11, wherein the image is text indicating the functions of the buttons.

14. The method of claim 10, wherein when the buttons are pushed, the corresponding item selected becomes inverted to indicate that the item has been selected.

15. The method of claim 10, wherein one of the selectable items changes the language of the function indicated.

16. A method of indicating functions of buttons on an image display apparatus having an image display portion, the method comprising:

generating an image including plural zones, each zone indicating a function of the image display apparatus and corresponding in a close relationship with a respective button in which a respective function is assigned.

17. The method of claim 16, further comprising moving the zones to correspond with a second set of buttons on the image display apparatus when the image display apparatus is rotated.

18. The method of claim 16, further comprising rotating the zones when the image display apparatus is rotated such that the zones indicate the respective functions horizontally while corresponding with the buttons.

19. An image display apparatus having buttons to select items of a display, comprising:

an image display unit including zones to display an image indicating functions assigned to the buttons;

a graphics processing unit to supply images displayed by the image display unit; and
a controller to set display parameters of the image display apparatus, to perform operations assigned to the buttons, to generate image information to be displayed in the zones and to supply the image information to the graphics processing unit.

20. The image display apparatus of claim 19, wherein the zones are in a close corresponding relationship with the respective button.

21. The image display apparatus of claim 19, wherein the functions can be displayed in several different languages.

22. The image display apparatus of claim 19, further comprising:
a button discrimination unit to discriminate which button is pushed; and
a pivot detector to detect a pivot angle of the image display unit and to provide the pivot angle detected to the graphics processing unit such that the graphics processing unit supplies

an image to the image display unit at a same pivot angle as the image display unit.

23. The image display apparatus of claim 19, wherein the image is displayed when any one of the buttons is pushed.

24. The image display apparatus of claim 19, further comprising a second set of buttons, wherein when the image display unit is pivoted, the zones become in close corresponding relationship with the second set of buttons.

25. A method of indicating a function of a button in an image display apparatus having a screen and a frame with the button, the method comprising:

generating an image to indicate the function of the button to be displayed on the screen of the image display apparatus.

26. The method of claim 25, wherein the function of a button comprises first and second sub-functions, and the generating of the image comprises selectively generating one of the first and second sub-functions according to activation of the button.

27. A method of indicating functions of buttons in an image display apparatus having a screen and a frame with the buttons, the method comprising:

generating one of first functions of a first button and one of second functions of a second button to be displayed on the screen.

28. The method of claim 27, wherein each of the first functions and the second functions comprises one or more characters, and the generating of the first functions comprises displaying the characters in a direction in which the first and second buttons are arranged on the frame.

29. The method of claim 27, wherein each of the first functions and the second functions comprises one or more characters, and the generating of the one of the first functions comprises displaying the characters in a direction having an angle with an arrangement of the first and second buttons.

30. The method of claim 27, wherein the generating the one of the first functions

comprises simultaneously generating each set of the first and second functions according to activation of one of the first and second buttons.

31. The method of claim 27, wherein the generating of the one of the first functions comprises displaying the one of the first functions and the one of the second functions on corresponding zones of the screen.

32. The method of claim 27, further comprising:
changing one of the first functions to another function corresponding to the first button to be displayed on the screen.

33. The method of claim 27, wherein at least one of the first functions and the second functions is programmable.

34. The method of claim 27, wherein the first functions and the second functions comprises at least one of menu, select, +, -, symbols ↑ or ↓, a format of a signal source, and one of languages.

35. An image display apparatus having a screen and a frame with at least one button, comprising:
a graphics processing unit to process at least one function of the respective at least one button to be displayed on the screen; and
a controller to set display parameters of the image display apparatus, to perform the at least one function, to generate the at least one function to be displayed on the screen and to supply the at least one function to the graphics processing unit.

36. The image display apparatus of claim 35, wherein the at least one function of the respective at least one button comprises first and second sub-functions, and the generating of the first and second sub-functions comprises selectively generating one of first and second sub-functions according to activation of the respective button.